

What is Claimed is:

1. A software program implemented in a medical device system, comprising:
means for detecting atrial capture;
means for resetting an atrial chamber reset;
5 means for instructing an atrial output circuitry in the medical device to emit atrial test pulses on a periodic basis; and
means for determining a minimum magnitude of said atrial test pulse in cooperation with said means for detecting, said means for resetting and said means for instructing.
- 10 2. The system of claim 1 wherein said means for resetting includes means for confirming atrial capture.
- 15 3. The system of claim 2 wherein said means for confirming further includes means for identifying interruption of a stable sinus system.
- 20 4. A software program implemented in a medical device system, comprising:
means for adjusting energy levels of atrial test pulses within a high and low energy level until loss of atrial capture; and
means for marking an interruption in a stable ventricular sensed rhythm to identify said loss of atrial capture wherein said means for adjusting cooperates with said means for restoring said AV synchrony.
- 25 5. A software system implemented in a medical device system comprising:
means for selecting between atrial chamber reset and atrial ventricular conduction;
means for determining the most accurate measure of an atrial pacing threshold for any patient at any time; and
30 means for determining patient's disease state, said means for determining being in operable data communication with said means for selecting and said means for determining.

6. A system for measuring pacing thresholds in one or more leads associated with a medical device, the system comprising:

means for checking a polarity of a lead;

means for changing said polarity of the lead if said lead fails a test; and

means for initiating one of an adjustment of atrial and ventricular output based on results obtained via said means for checking and said means for changing.

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